

Claims

What is claimed is:

Add
EI
15

1. An optical fiber cutting device comprising a speed reducing part which transmits drive force by reducing the drive speed of the external drive force, a drive force transmission part which transmits the drive force from the speed reduction part to the cutting blade holder, a cutting blade holder, a cutting blade which is held by the cutting blade holder and moves to the cutting position along with said cutting blade holder, and an optical fiber supporter which supports the optical fiber so as to be perpendicular to said cutting blade at the cutting position.

2. An optical fiber cutting device according to Claim 1 wherein said drive force is provided by the rotation of a motor, said speed reducing part is a set of speed reducing gears which reduces the speed of the rotation of said motor, and further, said drive force transmission part comprises a cam which rotates along with the rotation of said set of speed reduction gears and a cam follower which moves in a rectilinear direction along with the rotation of said cam.

3. An optical fiber cutting method wherein, in the optical fiber cutting device comprising a speed reducing part which transmits drive force by reducing the drive speed of the external drive force, a drive force transmission part which transmits the drive force from the speed reduction part to the cutting blade holder, a cutting blade holder, a cutting blade which is held by the cutting blade holder and moves to the cutting position along with said cutting blade holder, and an optical fiber supporter which supports the optical fiber so as to be perpendicular to said cutting blade at the cutting position, when the cutting blade with a blade thickness α (mm) is used, and said cutting blade is moved at a speed β (mm / minute) during cutting, α and β fulfill the following expression (1):

$$\beta \leq -253\alpha + 65 \dots \dots \dots \text{Exp. (1)}$$

4. An optical fiber cutting method according to Claim 3 wherein said drive force is provided by the rotation of a motor, said speed reducing part is a set of speed reducing gears which reduces the speed of the rotation of said motor, and further, said drive force transmission part comprises a cam which rotates along with the rotation of said set of speed reduction gears and a cam follower which moves in a rectilinear direction along with the rotation of said cam.

and
and

SEARCHED INDEXED
SERIALIZED FILED
APR 22 1971